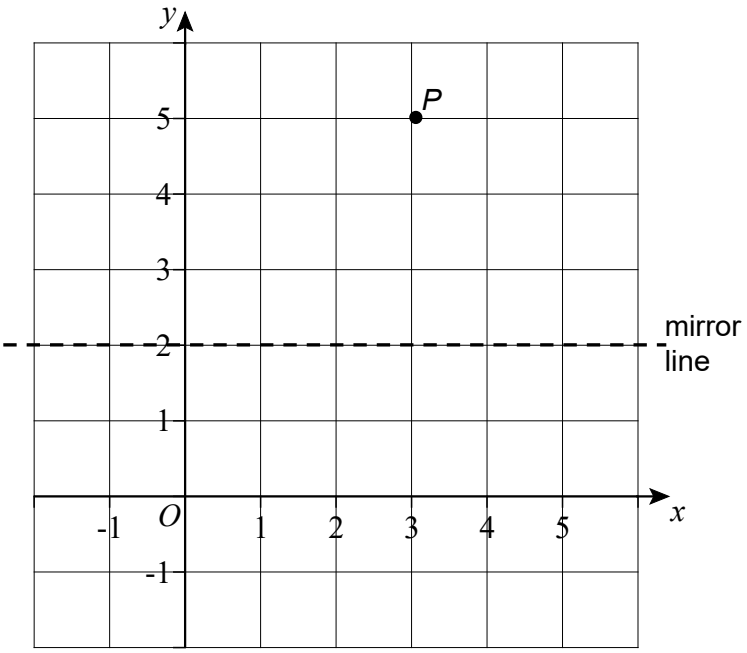
Topic Test 1 (20 minutes)

Coordinates and linear graphs - Foundation

1



Point *P* is reflected in the mirror line.

1 (a) Circle the equation of the mirror line.

[1 mark]

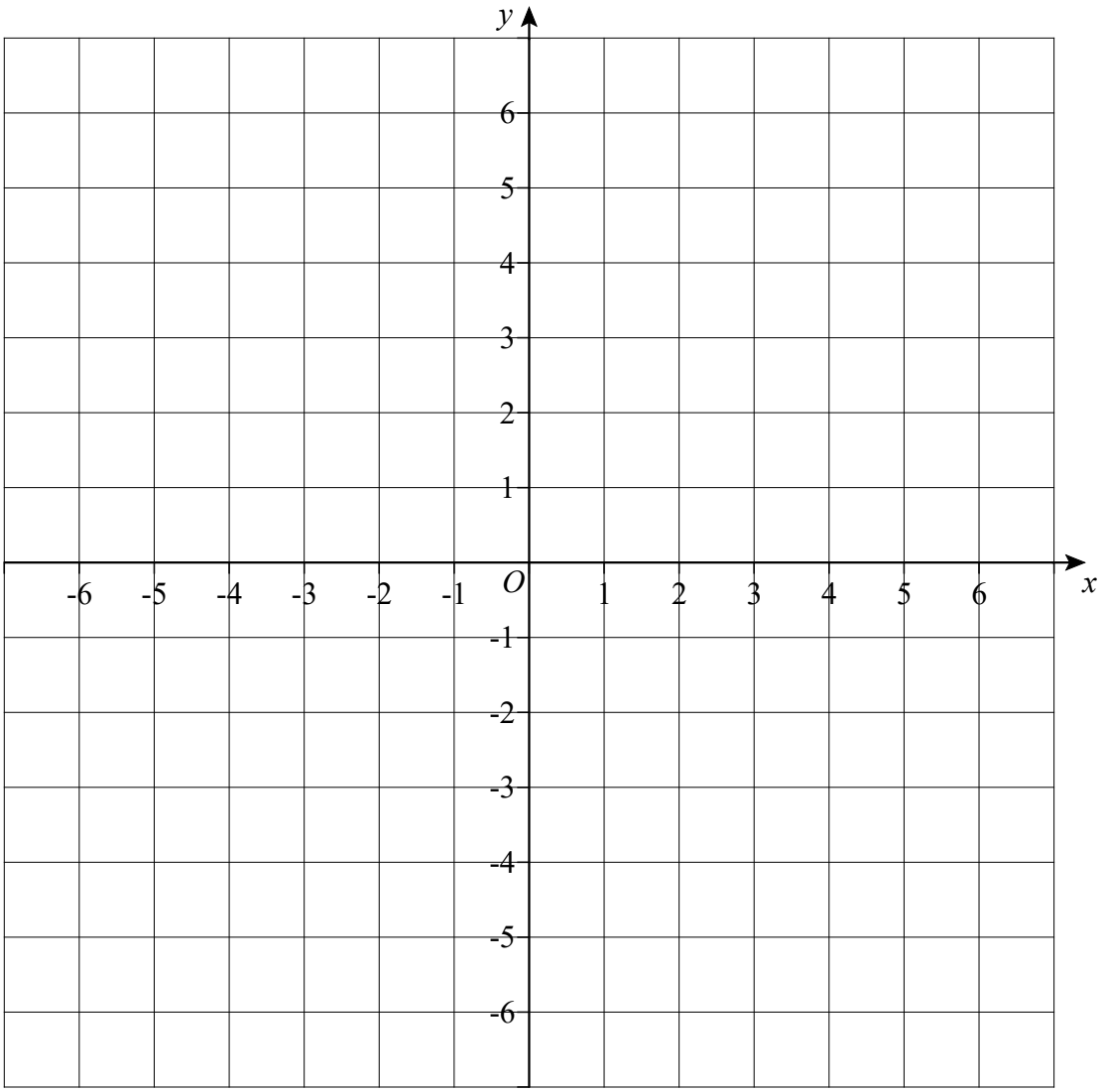
$y = x + 2$ $x + y = 2$ $x = 2$ $y = 2$

1 (b) Work out the coordinates of the reflection of point *P*.

[1 mark]

Answer (,)

2



2 (a) Plot the points $A(-3, 2)$ and $B(1, -2)$ on the grid.

[2 marks]

2 (b) Point C has

the same x-coordinate as A
three times the y-coordinate of B.

Plot C on the grid.

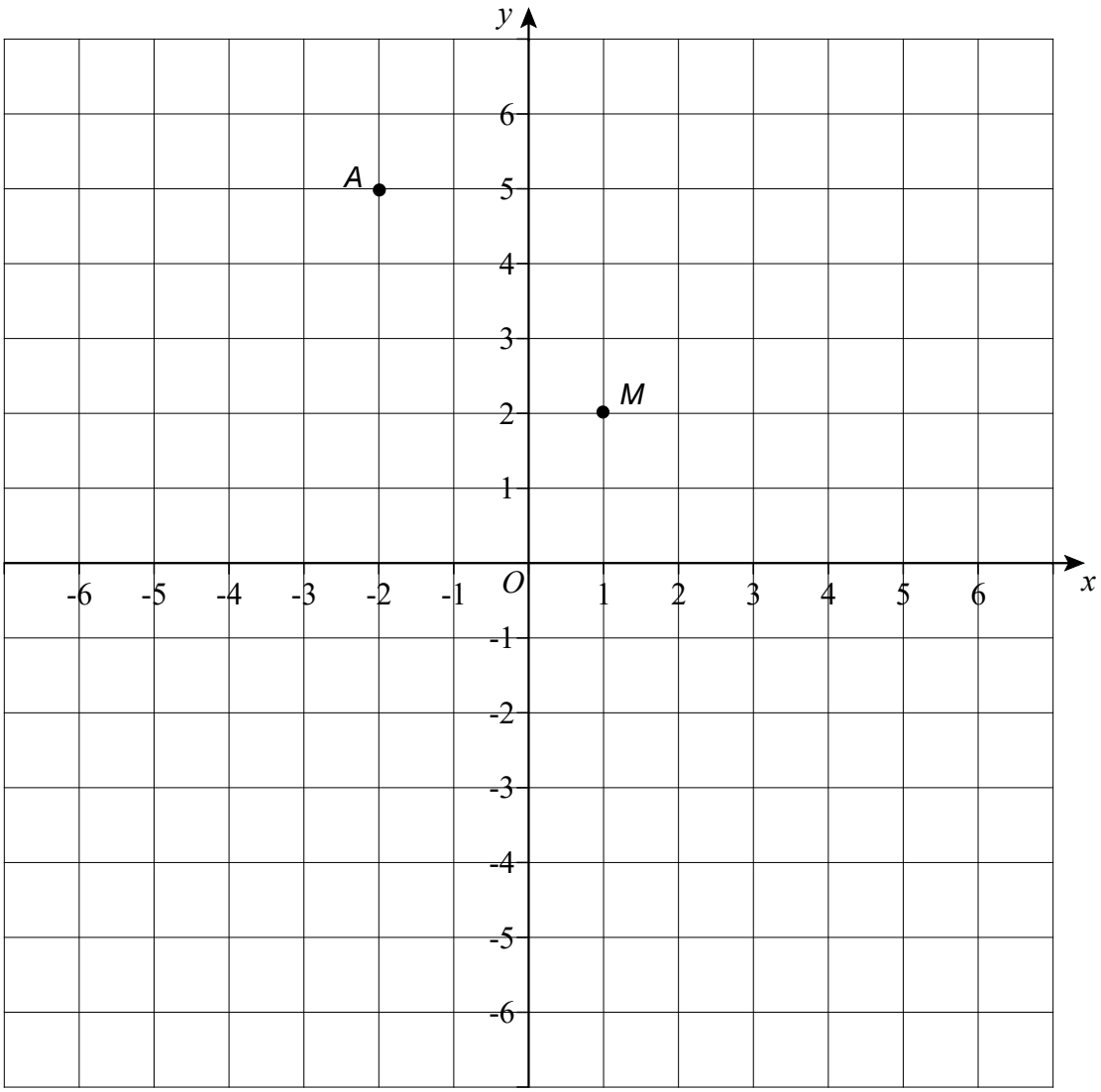
[2 marks]

2 (c) Circle the **two** answers that describe triangle ABC.

[2 marks]

equilateral isosceles scalene right-angled

3



3 (a) *M* is the midpoint of the line *AB*.

Work out the coordinates of *B*.

[2 marks]

Answer (,)

3 (b) Write down the coordinates of two other points on the line AB with midpoint *M*.

[2 marks]

Answer (,) and (,)

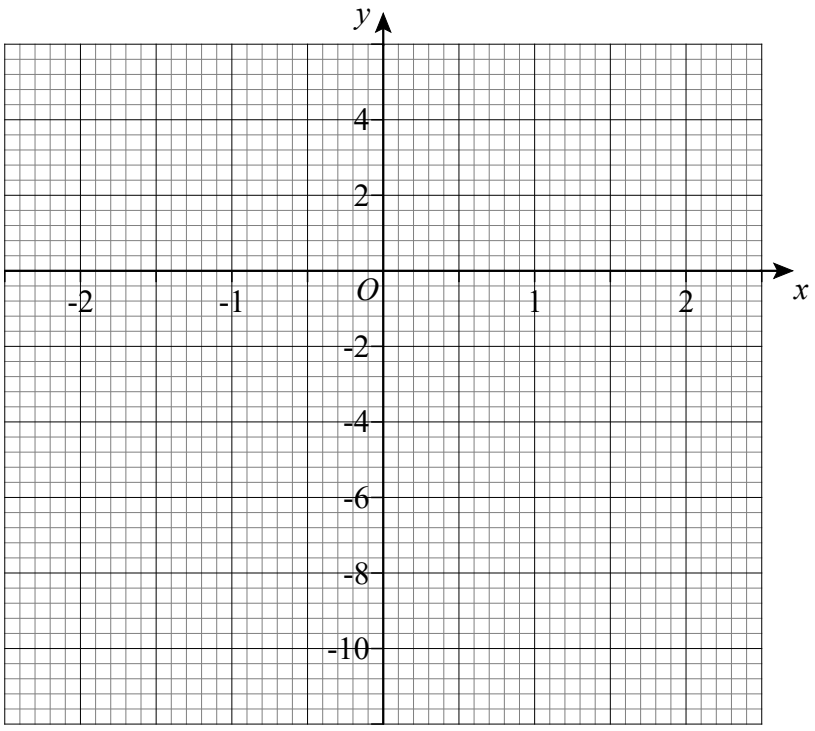
4 (a) Complete the table for $y = 3x - 2$

[2 marks]

x	–2	–1	0	1	2
y	–8		–2		4

4 (b) On the grid draw the graph of $y = 3x - 2$ for values of x from –2 to 2

[2 marks]

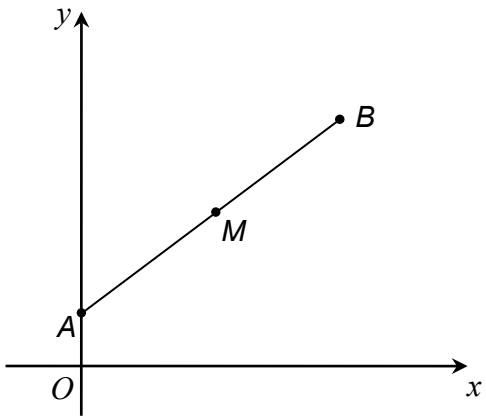


5 Work out the coordinates of **two** points that lie on the line $y = 12 - 5x$

[2 marks]

Answer (,) and (,)

6 *A* is (0, 4) and *B* is (10, 9)



Not drawn accurately

Work out the coordinates of the midpoint, *M*, of the line *AB*.

[2 marks]

Answer (,)